Accident / Incident Report Closed



Unit/Department	Process Area		Site	 .	Rep	ort Numb		
South Operation-Elyria			ELYRIA		0084-SOPS-14-		4-0035	
Report Date	Incident Date		Incident Time		Copied From			II IR. BOX ARROYS
03/09/2014	03/08/2014		11:15 PM				·	<u>· ·</u>
Incident Location			Team Leader / S	Supervisor	Ren	nded By		
						Reported By Robert Scoggins		
Building 31 Gen Cat (#3 Cald	H		Robert Scoggins		**************************************	CEANUM M		
Title of Event (Limit to 90 cha	racters)		Category			ion / Bus iroup Cod	. Group / de	
CTO Failure / NOx Release	,		Safety & Hea			G-CCP	A60	
Incident Classification	***************************************	· · ·						
☐ Near Miss	Prope	erty Loss		Contractor		- 		· //
Process Safety		on / NOV			Injury / Illne	ss		
☐ Injury / Illness		h Exposure			ury / Illnes:			
Spill / Release	Inspe	•		SM	,			
Permit / Regulatory Deviati		Incident		Plant Upset	.			
Fire		Occupational	EHS Management System Failure					
Odor Complaint	RMP	-		ther	,,,			
Describe Event / What Happer	ned							
Immediate Corrective Action of Due to an engineering interleaxhaust was diverted to the the ERT team gathered and introughout the building. Entitle given to personnel.	ock between the F1 scrubber, and prepared for SCE	d the building was BA entry to furthe	s evacuated. Af r investigate #3	ter confire calciner,	ning all pe and to eva	rsonnel Iluate NC	accounte ox levels	d for,
Immediate Cause		-						
			enner			· · · · · · · · · · · · · · · · · · ·		
Upon returning to the building interlocks between the CTO	and the syntron	the calciner feed	was discovered was automatic	ally stopp	1:06 pm di ed as the r	re to equi nalfuncti	ipment on occur	red.
Spill Release Type(s) Chemical(s) Involved	Non RQ Spill / F	CAS#	Phy. State	Λi-	l lond	Motor	T Co-14	I In the
		ļ <u>.</u>		.].	Land	Water	Contmt	Units
Nitrogen Dioxide (NOx)		10102-44-0	Gas	1.66	0	0	0	lbs
	Release to air				LD: U		1.45	 =
Weather Conditions	Skies:	Tempera	ature:	AAII	nd Direction	¥:	Wind S	peed:
Cause Narrative Electrical short on the VFD c	aused the CTO t	o shut down.				1		
Contributing Causes		Root/Primary Ca	iuses					
Loose wiring on the VFD on th an electrical shortage which le failure.	d to the CTO	28 - Equipment Reliability Progra Implementation	LTA		31 - Repa	ir Implen	ntation LT	Α
Operations was unsure of the what occurs during scrubber fa		192 - Communications	194 - No Communic	cation or	197 - Cor Shifts and		ion Betwe ment LTA	

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		Not Timely	
During the CCR update, the link between CTO and F1 scrubber was severed. The link would have automatically caused the suction to route to F1 when the CTO falled.	15 - Design Input/Output	17 - Design Output LTA	17 - Design Output LTA
VFD was installed 2 - 3 years prior. It is assumed that the connections either became loose over time or were loose from installation. There were no maintenance checks on the VFD during this time.	28 - Equipment Reliability Program Implementation LTA	36 - Predictive Maintenance LTA	38 - Montoring LTA

Explanation of Root Causes

192/194/197 - Newly implemented change caused the syntron to automatically shut off when CTO failed. Operations was not aware of this change.

Any known or potential off-site impacts? No	PSM Incident? No	Estimated C	ost: 2,000.0)0 US	D
Investigation Team William	n D Deisenroth; Jefferson Lewis; Robert	Scoggins; J	ennifer Baile	у	
Ite Corrective Action(s) to prevent recurrence	Responsible Person	Target	Final	VC	VE

lte m	Corrective Action(s) to prevent recurrence	Responsible Person	Target Date	Final Closed Date	VC Re q	VE Re q
1	Investigate adding a PM to VFD's for loose connections using either thermography or physical inspection.	Gregory A Menz/BASF-CATALYSTS/BASF	04/18/2014	08/25/2014	N	N
2	Investigate better mechanism for communicating changes (MOC) within the plant and assuring MOC's are entered for changes impacting equipment functionality.	Noemi Trent/BASF-CATALYSTS/BASF	05/31/2014	06/09/2014	N	N

Approved By:	
Manager / Dept. Head	Leon Zavodnik 03/20/2014 02:25 PM
EHS Unit Coordinator	Tim Anglin 04/04/2014 08:07 AM
Employee	Robert Scoggins 04/04/2014 11:41 PM

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